ENGINEERING APPLICATIONS

Creating Cut Sheets, Filling in Border Title Block Text, and Plotting

Creating Cut Sheets

1. Create a new file using the **CT_40scale_sheet_3d.dgn** seed file.

   The seed file can be found under
   CTDOT_V8_Workspaces\CTDOT_Standards/seed.

2. Reference the ground and design files and do fit all.

   a) Click the Reference File Icon. **Reference File Icon** →

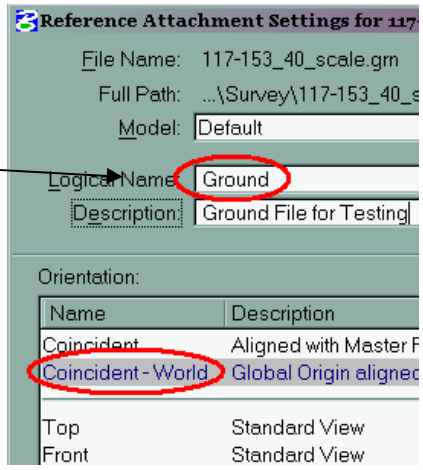
   

   b) Type a logical name for the reference file(s).

   c) Select **Coincident World**.

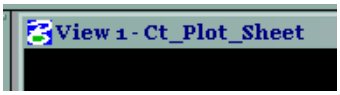
   d) Hit **OK**.

   e) Do a **fit all**.

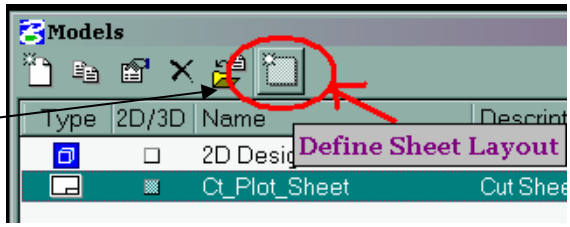
3. Turn on the **sheet model** and move it to desired location:

   NOTE: A "**Sheet Model**" called **CT_Plot_Sheet** has been created with a predefined 22"X34" border which plots a 24"x36" sheet size which you can snap to. The name of the active "**Sheet Model**" is listed on the View header. The seed file has the frame of the sheet model **CT_Plot_Sheet** turned off so you must turn it on.

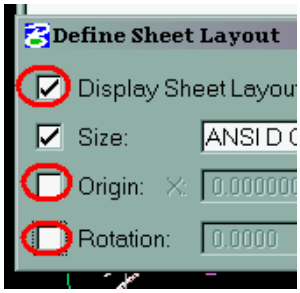
   

   a) Click on the **Models** Icon. 

   b) On the **Models** window, highlight **CT_Plot_Sheet** and click the **Define Sheet Layout** Icon. 

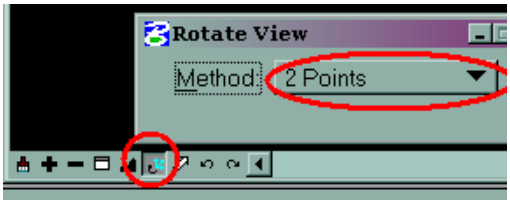
   

   c) On the **Define Sheet Layout** window:

   (1) Check **Display Sheet Layout**.
   (2) Uncheck **Origin** and **Rotation**.
   (3) Move mouse over the ground/design reference files and hit a data point, then hit a second data point to accept the desired rotation.
   (4) For Sheet Size, The default is CT_DOT 22"X34" which will yield a plot size of (24"x36").

4. Rotate your window view:



a) Click on the **Rotate View** Icon on the bottom of the window.
b) The method should be **2 Points**.
c) Do a tentative and then data point to the bottom left corner of the **CT_Plot_Sheet** outline.
d) Do a tentative and then a data point to the bottom right corner of the **CT_Plot_Sheet** outline to define the X-axis.

5. Reference the border.

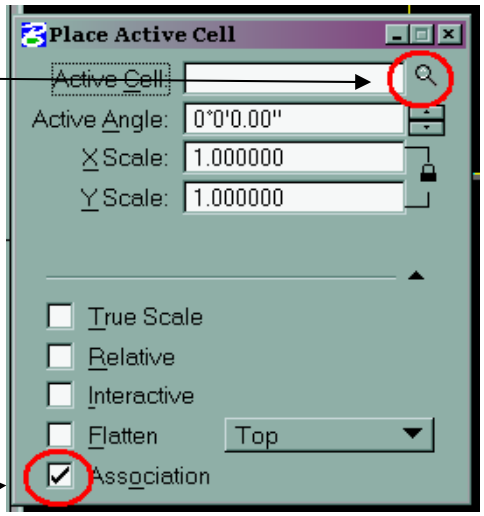
Reference File Icon →

a) **CT_border.dgn** can be found in your project directory in the "Border" subfolder.
b) After you give the border a logical name, select **Top** as your Orientation and click on **OK**.
c) Move the reference file outline over the **CT_Plot_Sheet** and hit a data point.
d) You will need to move the reference border so it is exactly lined up with the **CT_Plot_Sheet**. Use a tentative (and data point to accept) at the top left border corner and then select a tentative (and data point to accept) at the top left **CT_Plot_Sheet** corner.
e) Clip and bound the ground and design files.

READ YOUR PROMPTS. You will need to put a data point on the screen to accept the clip/bound shape and then you will need to do a reject to complete the operation.

Filling in Border Title Block Text

1. Placing the Title Block Text Tags



a) Hit the **Place Active Cell** Icon.
b) Hit the **Browse Cell** Icon on the top right.
c) Attach the **CT_Standard.cel** cell library. It can be found in the following path:

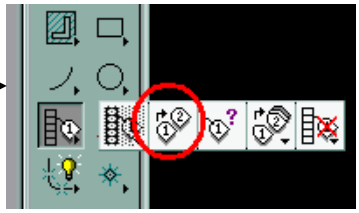
CTDOT_V8_Workspaces\CTDOT_Standards\Cell.

d) Make **CT_Border_Text** your active cell.

NOTE: There is a cell called **CT_Border_Revision_Text** to use when there are construction changes. Place this cell in the same manner as you would the **Titleblock Text Tag** cell.

e) Make sure **Association** is checked.
f) **Using a tentative to the bottom left corner of the border**, place the **CT_Border_Text** cell.

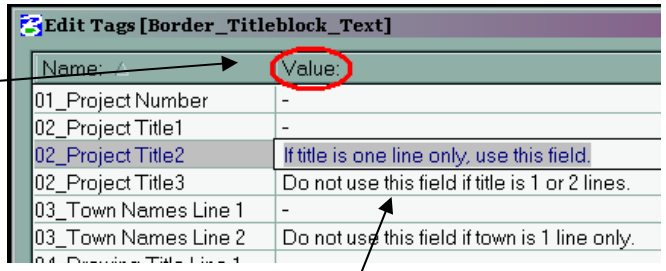
2. Filling in the Title Block Text Tags



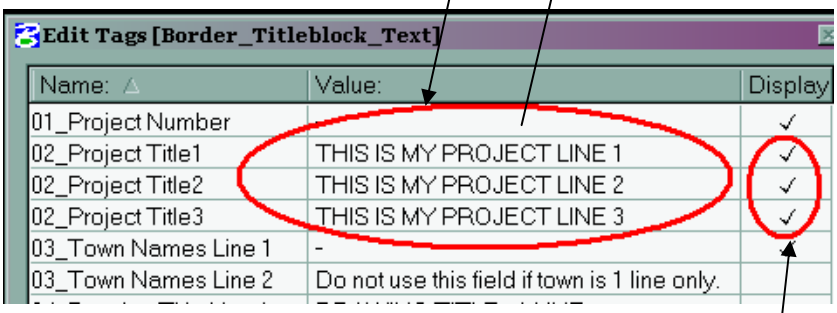
a) Select the **Edit Tags** Icon. It can be found on the left of the Main toolbar.
b) Zoom closer to the title block area.

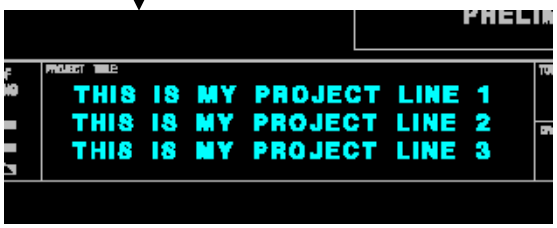
c) Title block text tags look like a "**-**". Double click on one of them and the **Edit Tags** window will open.

d) On the **Edit Tags** window you can change the **Value** of any field by putting a data point in the **Value** column and typing the new value. Hit the tab key to go to the next line, or you can use your up/down keyboard arrows.



e) You may have to overwrite some of the **Value** fields that have text to aid users for standardization.





f) You can "turn off" or on any value by unchecking it in the **Display** column.
g) When all fields are entered, hit **OK**.

Creating Additional Cut Sheets

For additional cut sheets….do a "**Save As**". You will need to re-clip/bound the ground/design reference files and move the border and **CT_Plot_Sheet**.

Plotting Sheets

1. Open **Iplot**. (Note, you do not need to place a fence.)

   a) The **Plot Area** should default to **Sheet**.
   b) Notice the sheet size defaults to the CTDOT standard border which has a height and width of 22"x34".The actual paper plot size for this setting is the standard 24"x36", which has been configured by the X and Y offsets in Iplot.
   c) Select your printer.
   d) Do a **Preview**, if needed.
   e) Hit **Plot**.